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Structural Engineers, Architects & Project Management Consultants

NAME OF WORK:- CONSTRUCTION OF SWIMMING POOL AT AMRUTHA NAGARA, BYATARAYANAPURA WARD NO.7

Name of Client : EXECUTIVE ENGINEER, PROJECT DIVISION, YELAHANKA ZONE, BBMP, BANGALORE

Contractor/ Agency : Sri.K.Somappa, No.139/A, 6th Main Mathikere, Bangalore-560054

Total Cost : Rs.61,12,596/-

Date Of Inspection : 29-06-22

Status Of Bill : Fouth & Part Bill

In the Presence of : a) Assistant Engineer Project Sub division, Yelahanka Zone, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	**Description of work**	**Comments/Observations**
15	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size 40x20x20cms confirming to I.S 2185/1963 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

RUDRAPRASAD CONSULTANTS BANGALORE

#3, 7th Main, Maheshwaram, Bangalore – 560003
Telefax: 9180 23444801, Mobile: 91 9972924526
Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

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20	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For Outside Plastering	Work done upto the Billed Quantity and the Quality is satisfactory
24	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)	Work done upto the Billed Quantity and the Quality is satisfactory
58	Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate	Work done upto the Billed Quantity and the Quality is satisfactory
106	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe	Work done upto the Billed Quantity and the Quality is satisfactory

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107	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe	Work done upto the Billed Quantity and the Quality is satisfactory
108	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe	Work done upto the Billed Quantity and the Quality is satisfactory
114	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
115	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
116	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia	Work done upto the Billed Quantity and the Quality is satisfactory

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107	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes joining of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe	Work done upto the Billed Quantity and the Quality is satisfactory
108	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe	Work done upto the Billed Quantity and the Quality is satisfactory
114	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
115	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
116	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia	Work done upto the Billed Quantity and the Quality is satisfactory

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122	PART A:- SUBSTATION EQUIPMENT Supply and erection of 11Mtr Spun Pole including earth work etc,. complete as per the standard technical specification directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
123	Supply And Fixing of Single Pole Mounted Transformer Kit for 100/250KVA on 11Mtr Spun Pole etc. complete as per the standard technical specification of directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
124	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work 5.8.8) GOS Set 200 Amps Single break	Work done upto the Billed Quantity and the Quality is satisfactory
125	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work5.8.1) H Frame Set	Work done upto the Billed Quantity and the Quality is satisfactory
126	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.3) Horizontal. 50x450x6mm - 980mm directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
127	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.4) Disc Insulator 70/90 KN directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
128	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.3)11 KV Pin Insulator directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
129	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.8)HT ST Support 50x8 mmdirections of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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130	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.1)4 Pin 45x45x5mm -1110mm directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
131	Supplying and Fixing including all Hardware's etc, complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
132	Supplying and Fixing including all Hardware's etc, complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type, directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
133	Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- (with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM System :11KV, 3PH, 50HZ, Fault level: 350 MVA. Installation : OUTDOOR. a.Onload AIR BREAK switch with fuse trip mechanism.,3P,400A, 12KV,18.4 KA, 350MVA - 1 no b.11KV HRC Fuses with triping striker pin suitable Amps - 3nos c.Aluminium busbar, suitable rating 3 Phase,Air insulated with heat shrinkable sleevs - 1set d.Earth 25X3 mm Tin coated copper busbar - 1set e.Busbar supports resin cast with 33KV die electric and mechanical strength - 1 set directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
135	GI Pipes B - Class GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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136	TRANSFORMER:- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification. 8.10.2) 100 KVA directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
137	LT KIOSK:- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
138	B. EARTHING SYSTEM Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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139	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
140	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
141	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
142	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
143	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
144	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
145	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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#3, 7th Main Malleswaram, Bangalore – 560003
Telefax: 91(80) 23447804, Mobile: +91 9972924526
Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

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146	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
181	PART D:-SUBMAINS CIRCUIT MAINS/POWER WIRING Open Conduit System Supplying heavy gauge PVC conduit pipe .dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
182	Open Conduit System Supplying heavy gauge PVC conduit pipedia .mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia 2mm thick directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
183	Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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184	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia .mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
185	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary25mm dia 2mm thick directions of the Engineer-In-charge of the work	*Work done upto the Billed Quantity and the Quality is satisfactory*
186	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
187	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe.dia .mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 19/20mm dia 2mm thick directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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188	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia.mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
189	Groove cutting:- Concealed Conduit System Supplying heavy gauge PVC Conduit Pipe .dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.32mm dia 2.5mm thick directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
190	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. GROUP A Short point upto 3Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
191	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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192	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
193	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
194	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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195	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 1.5 sqmm. directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
196	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.2.5 sqmm directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
197	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.2.5 sqmm directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory
217	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. On wall / ceiling / Rafter / Girders directions of the Engineer-In-charge of the work	Work done upto the Billed Quantity and the Quality is satisfactory

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